

| LTE Band 41 Channel Band width: 15MHz  |   |
|--|---|
| Channel 40620  |   |
| Frequency Range : 9kHz~1GHz  | Frequency Range : 1GHz~3GHz   |
|  | Marker 1 2.350667533377 GHz         Auton Aut |
| IFGainLow #Atten: 20 dB Der MINNIN<br>Brown 19 Minning #Atten: 20 dB Der Minning   | NextPeak Ref Office 1231 dB NextPeak NextPeak   |
| 10 dB/div Ref 18.10 dBm -37.06 dBm -37.06 dBm  | 10 dB/div Ref 23.10 dBm45.87 dBm  |
| 810 Nex  | xt Pk Right   |
|  |   |
| .119   | ext Pk Left   |
| -219 DU-250.060 MM   | arker Delta   |
|  | 28.9  |
|  | Mkr→CF 359 Mkr→CF   |
| .619   |   |
| 619 MI   | kr→RefLvi 269 Mkr→RefLvi  |
| -719   | More More   |
| Start 9 kHz Stop 1.0000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)                                  | 1 of 2<br>Start 1.000 GHz Stop 3.000 GHz 1 of 2<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)   |
|  | Mag (status)  |
| Frequency Range : 3GHz~27GHz   |   |
| Marker 1 26.710785539277 GHz Avg Type: Log-Pwr TRACE 2 3 4 5 C   | k Search  |
| Ref Offset 23.1 dB Mkr1 26.710 8 GHz   | NextPeak  |
|  |   |
| -6.90 Ne:  | xt Pk Right   |
| -16.9  | ext Pk Left   |
| -26.9  |   |
|  | arker Delta   |
|  |   |
|  | MkrCF   |
|  | krRef Lv  |
|  |   |
|  | More<br>1 of 2  |
| Start 3.00 GHz         Stop 27.00 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts) |   |



| LTE Band 41 Channel Band width: 15MHz<br>Channel 41515  |                |   |
|---|----------------|---|
| Frequency Range : 9kHz~1GHz   |                | Frequency Range : 1GHz~3GHz   |
| Keyligit Spectrum Analyzer - Swept SA         SENSE:101         ALIGN AUTO         01:41:27 PM Apr 25, 2016           R         R         R         DC         SENSE:101         ALIGN AUTO         01:41:27 PM Apr 25, 2016  |                | Keyright Spectrum Analyzer - Swept SA     Sec. DC SCHOCE-INT ALLOW AUTO 01:47:37 FM Avr.35 2018   |
| Marker 1 680.136885494 MHz Avg Type: Log-Pwr TR4CE 123 4 5<br>PNO: Fest CD Trig: Free Run Tree Run CD Trig: Free Run CD Tree Run CD RUN TR4CE 123 4 5<br>FGein-Low Akten: 20 dB DEF RUN TR4CE 123 4 5   | Peak Search    | Marker 1 2.383469173459 GHz Avg Type: Log-Pwr TRACE 12.383469173459 GHz Trig: Free Run Trig: Free Run HGinitow #Atten: 10 dB OFF Melthana |
| Ref Offset 23.1 dB Mkr1 680.14 MH:<br>10 dB/div Ref 18.10 dBm -36.78 dBm -36.78 dBm   |                | Ref Offset 23 1 dB Mkr1 2.383 5 GHz<br>10 dB/div Ref 23.10 dBm - 46.76 dBm  |
| 8.10  | Next Pk Right  | 131 Next Pk Right   |
| 130   | Next Pk Left   | 3.0 Next Pk Left  |
| 219   | Marker Delta   | 159 Marker Detta  |
|   | Mkr→CF         | - ∞9 Mkr→CF   |
| 619   | Mkr→RefLv      |   |
| 713 Stop 1.0000 GH/   | More<br>1 of 2 | Start 1.000 GHz 1 of 2  |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts<br>1900 [STATUS]  | 5)             | #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |
| Frequency Range : 3GHz~27GHz  |                |   |
| Kopsight Spectrum Analyzer - Swept SA         SSINCE SIVI         ALLON AUTO         (91:17:45 PM Agr 25, 2011)           Matk or 15.33713185555928 CH2         File         File         Arg Type: Log-Pwr         Tinde: Trig: Trig | Peak Search    |   |
| Ref Offset 23.1 dB Mkr1 5.371 3 GH2<br>10 dB/div Ref 3.10 dBm -46.08 dBm -46.08 dBm   |                |   |
| 6.30  | Next Pk Right  |   |
| 16.9  | Next Pk Left   |   |
| .559  | Marker Deita   |   |
|   | Mkr→CF         |   |
|   | Mkr→RefLv      |   |
|   | More           |   |
| Start 3.00 GHz         Stop 27.00 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  |                |   |











| LTE Band 41 Channel Band w   | vidth: 20MHz  |   |  |
|--|---|---|--|
| Channel 41490  |   |   |  |
| Frequency Range : 9kHz~1Gł   |   | Frequency Range : 1GHz~30   |  |
| RL RF 50 Ω DC SENSE:INT     Marker 1 851.4933911196 MHz     PNO: Fast     Free Run     IFGainLow     #Atten: 20 dB   | ALIGN AUTO 01:47:23 PM Apr 25, 2018<br>vg Type: Log-Pwr TRACE 23 4 5 5<br>TYPE MUMANY<br>DET PLANNINK   | Marker 1 2.487174358718 GHz<br>PNO: Fast<br>IFGain.low<br>FAtter: 10 dB | ALIGN AUTO 01:48:01 PM Apr 25, 2018<br>vg Type: Log-Pwr TR4CE 23:45:5<br>TYPE MUMANNA<br>OCT PUNNNNN |
| 10 dB/div Ref 0ffset 23.1 dB<br>Log Log  | Mkr1 851.49 MHz<br>-37.22 dBm   | Ref Offset 23.1 dB<br>10 dB/div Ref 23.10 dBm<br>Log                    | Mkr1 2.487 2 GHz<br>-40.974 dBm  |
| 8.10   | Next Pk Right   | 13.1  | Next Pk Right  |
| -190   | Next Pk Left  | 6.90  | Next Pk Left   |
| -21.9  | Marker Delta  | .16.9   | Marker Deita   |
| -11.9 Mills of a synthesis in the second synthesis of the second synthesis in the second synthesynthesis in the second synthesis in the second synthes |   |   | 1<br>Mkr⊸CF  |
| 61.9   | Mkr→RefLvl  |   | Mkr→RefLvi   |
| -719<br>Start 9 kHz  | More<br>Stop 1.0000 GHz 1 of 2  | 66.9 Start 1.000 GHz  | More<br>Stop 3.000 GHz 1 of 2  |
| #Res BW 1.0 MHz #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | #Res BW 1.0 MHz #VBW 3.0 MHz  | #Sweep 501.3 ms (20000 pts)  |
| Frequency Range : 3GHz~270   | GHz   |   |  |
| Keydigk Spectrum Analyzer - Swept SA.           VR AL         RF         50 0         CC         SENSE.INT           Marker 1 25.4.11120556028 GHz         PNO: Fast         Trig: Free Run         Avg           IFGaintaitigh         Atten: 0 B         Atten: 0 B         Atten: 0 B   | ALIGN AUTO 01:20:09 PM Apr 25, 2018<br>rg Type: Log-Pwr TRACE 7 2 4 4 7<br>TYPE<br>0 ET PMANNEL   |   |  |
| 10 dB/div Ref Offset 23.1 dB<br>Log Ref 3.10 dBm   | Mkr1 25.411 1 GHz<br>-46.70 dBm   |   |  |
| -6.90  | Next Pk Right   |   |  |
| -16.9  | CLI 45500 Em  |   |  |
| 369  | 1 Marker Delta  |   |  |
|  | Million of an of the standard |   |  |
| 76.9   | Mkr⊸RefLvi  |   |  |
| 86.9   | More  |   |  |
| Start 3.00 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz   | Stop 27.00 GHz<br>#Sweep 501.3 ms (20000 pts)   |   |  |

| equency Range : 9kHz~1GHz  |                                      |   |   |
|--|--------------------------------------|---|---|
| quelley Range : Skilz TOTIZ  |                                      | Frequency Range : 1GHz~10   |   |
| alight Spectrum Analyzer - Swept SA         SENSE:NIT         ALION AUTO         02:18:50 PM opr<br>(02:18:50 PM | 26, 2018<br>2 3 4 5 6<br>Peak Search | ■ Keyingt Spectrum Analyzer - Swept SA<br>VE RL 6F 560 DC SENSEINT<br>Narker 1 3.757287864393 GHz Trig: Free Run<br>FGaint.ow #Atten: 10 dB | ALIGN AUTO 02:20:16 PM Apr 26, 2018<br>g Type: Log-Pwr TR4CE 12 2 4 5 C<br>Type: Log-Pwr TR4CE 12 2 4 5 C<br>Type: Log-Pwr TR4CE 12 2 4 5 C |
| Ref Offset 26 dB Mkr1 791.74<br>/div Ref 26.00 dBm -44.63  | MHz NextPeak<br>dBm                  | Ref Offset 26 dB<br>10 dB/div Ref 26.00 dBm   | Mkr1 3.757 3 GHz<br>-38.13 dBm  |
|  | Next Pk Right                        | 15.0  | Next Pk Rig   |
|  | Next Pk Left                         | 4.00  | Next Pk L   |
|  | Marker Delta                         | .14.0   | Marker Do   |
|  | Mkr⊸CF                               |   | Mkr→  |
|  | Mkr→RefLvi                           | 640   | Mkr→Refi  |
| 9 kHz Stop 1.0000<br>BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (2000   | More<br>1 of 2<br>0 gHz              | Start 1.000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz   | Stop 10.000 GHz 10  |
| equency Range : 10GHz~26.5GHz  |                                      | ]   |   |
| sight Spectrum Analyzer - Swept SA         SENSE_SNT         ALIGN AUTO         (62:20:37 PM 4or)           RF         150:9         DC         SENSE_SNT         AUGN AUTO         (62:20:37 PM 4or)           RF         150:9         DC         Trig: Free Run         Avg Type: Log-Pw         Trice: T   | 26, 2018<br>2 3 4 5 0<br>2 4 5 0     |   |   |
| Ref Offset 26 dB Mkr1 26.152 7<br>/div Ref 26.00 dBm -33.67  |                                      |   |   |
|  | Next Pk Right                        |   |   |
|  | Next Pk Left                         |   |   |
|  | Marker Delta                         |   |   |
|  | Mkr→CF                               |   |   |
|  | Mkr→RefLvl                           |   |   |

BUREAU VERITAS



| LTE Band 66 Channel Band width: 1.4MHz<br>Channel 131979  |  |
|---|--|
| Frequency Range : 9kHz~1GHz   | Frequency Range : 1GHz ~10GHz  |
| 🔤 Keysight Spectrum Analyzer - Swept SA   | 🕞 🖗 🔤 🖕 Keysight Spectrum Analyzer - Swept SA  |
| Marker 1 922.153607680 MHz Avg Type: Log-Pwr TR4CE 1 234.5 0  | Veak Search         Viel         Marker 1 3.602480121006 GHz         Stotesant         Augraphies         Avg Type: Log-Pwr         Trice: Present         Pack Search           Morrison 100 Fait         PR0: Fait         Trig: Free Run         Avg Type: Log-Pwr         Trig: Free Run   |
| If Gainstow         Arten: 30 dB         Certainting           Ref Offset 2285 dB         Mkr1 922.15 MHz         10 dB/dir Ref 42.05 dBm           10 dB/dir Ref 42.05 dBm         -27.67 dBm         -27.67 dBm   | NextPeak Ref Offeet 22.85 dB Collection Ref 42.05 dBm Collection Ref 42 |
|   | Next Pk Right Next Pk Right  |
|   | Next Pk Left   |
| -7.05   | Marker Delta   |
| 371 271 271 271 271 271 271 271 271 271 2   | MkrCF  |
|   | MkrRefLvl 920 MkrRefLvl  |
| Start 9 kHz<br>Start 9 kHz Stop 1.0000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  | More         More           1 e12         Start 1.000 GHz         1 e12           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)   |
| Frequency Range : 10GHz~26.5GHz   | INTATAL ITATAL   |
| Keysight Spectrum Analyzer - Swept SA     Sector - S |  |
| Marker 1 26.475248762438 GHz Avg Type: Log-Pwr 1762 1224 5 1<br>IFGain.low #Atten: 30 dB OF   | eak Search   |
| Ref Offset 22 95 dB Mkr1 26.475 2 GHz   | NextPeak   |
|   | lext Pk Right  |
|   | Next Pk Left   |
| 296   | Marker Delta   |
|   | Mkr→CF   |
|   | Mkr→RefLvi   |
| 30 Start 10.000 GHz Stop 26.500 GHz   | More<br>1 ef2  |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |  |



| LTE Band 66 Channel Band width: 1.4MHz  |   |
|---|---|
| Channel 132322  |   |
| Frequency Range : 9kHz~1GHz   | Frequency Range : 1GHz ~10GHz   |
| Royald Spectrum Andgers-Sampti Sa         SSECENT         ALL 004 AUTO         01282-0294 April - 2018           Mark or 1         998         005         017         ALL 004 AUTO         01282-0294 April - 2018           Mark or 1         991.027/051355 MIHZ         Trace free Run         Avg Type: Log-Aw         Provid 222 are run         Pack Search           Mark or 1         991.027/051355 MIHZ         Trace free Run         Avg Type: Log-Aw         Provid 22 are run         Pack Search  | Kongapit Spectrum Andrers - Signed Sa.     Secol. Intl     AL OF AVAIL 02:51 PM Acr11. 2019     Marker 1 37.553237651883 GH2 pm     FOR Avail - A |
| Ref Offset 2295 dB Mkr1 991.03 MHz<br>10 dB/div Ref 42.95 dBm -27.01 dBm  | tk Ref OnSet 22.95 dB Mkr1 3.753 2 GHz Veral  |
| 330   | Next Pk Right   |
| 130 Next Pk Le  | 130 Next Pk Left  |
| 295 Marker De   | 2.95 Marker Delta   |
| 17.1 Mkr-G  | F 171 Mkr-CF  |
|   | vi 371 MkrRefLv   |
| Start 9 kHz         Stop 1.0000 GHz         Mo           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)   | 2 Start 1.000 GHz Stop 10.000 GHz 1 of 2<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |
| Frequency Range : 10GHz~26.5GHz   |   |
| Kyvigt Spectrum Analyzer - Snegt SA   | 8<br>8  |
| Marker 1 26.217010850543 GHz Avg Type: Log-Pwr TACE D 3 4 5 G<br>PRO: Fast C Trig: Free Run Pro: Free Run Pro: Trig: Free Run D C Run   |   |
| Ref Offset 2295 dB Mkr1 26.217 0 GHz<br>10 dB/dly Ref 42.95 dBm -16.85 dBm  | k   |
| 330 Next Pk Rig   | ht  |
| 20 Next Pk Le   | a.  |
| 2.90 Marker De  |   |
| 12.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2  | *   |
| 221     Strike in sector in the | v   |
| Star 10.000 GHz Stop 26.500 GHz 1 of  |   |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |   |



| LTE Band 66 Channel Band width: 1.4MHz  |  |
|---|--|
| Channel 132665  |  |
| Frequency Range : 9kHz~1GHz   | Frequency Range : 1GHz ~10GHz  |
| Registry Spectrum Analysis: - Specific Hill         ALL IN APROV         Specific Hill         ALL IN APRO         Specific Hill         Account Hill         Specific Hill         Account Hill         Peak Specific         Peak Specific         Peak Specific Hill   | PNO: Fast Fig: Free Run Trig: Free Run Fig: No Fig: Fig: Free Run Fig: F |
| Ref Offset 22.95 dB Mkr1 880.78 MHz<br>10 dBidliv Ref 42.95 dBm -27.59 dBm  | ak<br>Ref Offset2295 dB<br>10 dBildiv<br>Ref 42.95 dBm<br>-21.85 dBm   |
| 53.0 Next Pk Ri   | ht 330 Next Pk Right   |
| 100 Next PK L   | Next Pk Left   |
| 2 29 Marker Do  | 220 Marker Deita   |
| 127.1 MKr<br>27.1 A MKr 1.1 MKr   | CF 27.1 MkrCF  |
| 37.1 International Mathematical providences and a statistical production of an analysis of the automatic statistic statist  |  |
| Start 9 kHz         Stop 1.0000 GHz         11           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (2000 pts)         11   |  |
| Frequency Range : 10GHz~26.5GHz   |  |
| Koysight Spectrum Andyser Sungs SA.     Select SIT     August Spectrum Andyser Sungs SA.     Select SIT     August August Sample     |  |
| Ref Offset 22.95 dB Mkr1 25.964 5 GHz   | ak   |
| Next Pik Rig  | phr.   |
| 13.0 Next Pk L  | en   |
| 2 00<br>7 00 Marker De  | ia di seconda di second  |
| 17.1 Kr Start Barrier, Start Barr | CF.  |
| S2.1 MkrRef   | .vi  |
| Start 10,000 GHz         Stop 26,500 GHz         Mill           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  |  |







| LTE Band 66 Channel Bane<br>Channel 132322   | d width: 3MHz  |  |
|--|--|--|
| Frequency Range : 9kHz~1   | IGH7   | Frequency Range : 1GHz ~10GHz  |
| Keysight Spectrum Analyzer - Swept SA  |  | Keysight Spectrum Analyzer - Swept SA  |
| Marker 1 819.473973699 MHz<br>PNO: Fast<br>IFGain:Low<br>#Atten: 30 dB   | Avg Type: Log-Pwr TRACE D 2 3 5 5<br>TYPE WANNAND  | Marker 1 3.769888494425 GHz Avg Type: Log-Pwr TReC T 2.3 4 5 Peak SealCh<br>PNO: Fast Trig: Free Run Trig: Free Run OF Parker 30 4B OF Parker 30 4B  |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm   | Mkr1 819.47 MHz<br>-27.70 dBm  | Ref Offset 22.95 dB         Mkr1 3.769 9 GHz         Next Peak           10 dB/div         Ref 42.95 dBm         -21.71 dBm         Next Peak  |
| 33.0   | Next Pk Right  | 330 Next Pk Right  |
| 13.0   | Next Pk Left   | 200 Next Pk Left   |
| 295  | Marker Deita   | 2.9 Marker Delta   |
| -17.1  | ktiti300geb<br>Mkr→CF  | 1771 Company Control of Control o |
| 10 The system of the ten strategy of the system of the system of the strategy of the system of the s   | Mar prest ( m) - Den Sel Disconer ( Mar here and Mar he |  |
| 47 1<br>Start 9 kHz  | Stop 1.0000 GHz  | C 1 More<br>Start 1.000 GHz Stop 10.000 GHz  |
| #Res BW 1.0 MHz #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)  | Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |
| Frequency Range : 10GHz  |  |  |
| Marker 1 26.497524876244 GHz         SENSE:INT           PNO: Fast         Trig: Free Run           IFGainLow         #Atten: 30 dB  | ALIGN AUTO 02:30:09 PM Apr 11, 2018<br>Avg Type: Log-Pwr TRACE 12:3:4:5:0<br>TYPE 11<br>OCT 2 NUNNN  |  |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm   | Mkr1 26.497 5 GHz<br>-16.07 dBm  |  |
| 33.0   | Next Pk Right  |  |
| 23.0   | Next Pk Left   |  |
| 13.0   |  |  |
| 2.95   |  |  |
| -7.05  | Marker Delta   |  |
| 17.1   | Marker Deta  |  |
| 7 05<br>17 1<br>22 1 defines on the second secon   | pt.1.43.00.4 1   |  |
| 2.05<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1 | Renard Marine Mari  |  |



| LTE Band 66 C   |   | d width: 3                                 | BMHz   |  |  |  |   |               |
|---|---|--|--|--|--|--|---|---------------|
| Channel 13265<br>Frequency Ran  |   | 1647                                       |  |  | Frequency P                                    | ange : 1GHz ~  | 10047   |               |
| Keysight Spectrum Analyzer - Swept SA   | ige . ski iz~                           |  | 02:27:39 PM Apr 11, 2018   | - 4 <mark></mark>  | Keysight Spectrum Analyzer - Swept SA          |  | ALIGN AUTO 02:27:58 PM Apr11, 2018  |               |
| Marker 1 866.957847892 MH:  | Z<br>NO: Fast<br>Gain:Low #Atten: 30 dB | Avg Type: Log-Pwr                          | TRACE 1 2 3 4 5 6<br>TYPE MWWWWW<br>DET P NNNNN  | Peak Search  | Marker 1 3.785189259463                        | PNO: Fast Trig: Free Run<br>IFGein:Low #Atten: 30 dB | Avg Type: Log-Pwr TRACE 1 2 3 4 5 0<br>TYPE Det Physics 1 2 3 4 5 0<br>TYPE DET PHYSICS 1 2 3 4 5 0 | Peak Search   |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm  | Galit.Low sector of as                  | м  | kr1 866.96 MHz<br>-26.99 dBm   | Next Peak  | Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm |  | Mkr1 3.785 2 GHz<br>-21.50 dBm  | Next Peak     |
| 33.0  |   |  |  | Next Pk Right  | 33.0   |  |   | Next Pk Right |
| 23.0  |   |  |  | Next Pk Left   | 23.0   |  |   | Next Pk Left  |
| -7.05   |   |  |  | Marker Delta   | -7.05  |  |   | Marker Delta  |
| -17.1   |   |  | 0.1 -13.00 dBn   | Mkr→CF   | -17.1  | 1-   | CL1-13.00 dBm   | Mkr→CF        |
| After the table conference of the second sec    |   |  |  | Mkr→RefLvi   | -37.1  |  |   | Mkr→RefLvl    |
| Start 9 kHz   |   |  |  | More   | -4//1  |  |   | More          |
| #Res BW 1.0 MHz   | #VBW 3.0 MHz                            | #Sween 50                                  | Stop 1.0000 GHz  | 1 of 2   | Start 1.000 GHz<br>#Res BW 1.0 MHz             | #VBW 3.0 MHz   | Stop 10.000 GHz<br>#Sween 501 3 ms (20000 nts)  | 1 of 2        |
| #Res BW 1.0 MHz   | #VBW 3.0 MHz                            | STATUS                                     | 1.3 ms (20000 pts)   | 1 of 2   | Start 1.000 GHz<br>#Res BW 1.0 MHz             | #VBW 3.0 MHz   | Stop 10.000 GHz<br>#Sweep 501.3 ms (20000 pts)<br> STATUS   | 1 of 2        |
| Frequency Ran   |   | ~26.5GH                                    | 11.3 ms (20000 pts)<br>Z   | 1 072  |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
|   | nge : 10GHz                             | STATUS                                     | 1.3 ms (20000 pts)   |  |  | #VBW 3.0 MH2   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
|   |   | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 11.3 ms (20000 pts)  |  |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
| Koviget Spectrum Analyzer - Swept SA     Kar See See See See See See See See See Se   | nge : 10GHz                             | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 11.3 ms (20000 pts)<br>Z<br>02:28:18 PM April, 2018<br>TRACE 12 2 4 5 C<br>TYPE PMANN N<br>0 21 PMANN N<br>1 23,724 6 GHz  | Peak Search  |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
| Here<br>Frequency Ran<br>■ request lists for the first for th | nge : 10GHz                             | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 11.3 ms (20000 pts)<br>Z<br>02:28:18 PM April, 2018<br>TRACE 12 2 4 5 C<br>TYPE PMANN N<br>0 21 PMANN N<br>1 23,724 6 GHz  | Peak Search<br>Next Peak   |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
| Constraints and percent a         | nge : 10GHz                             | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 11.3 ms (20000 pts)<br>Z<br>02:28:18 PM April, 2018<br>TRACE 12 2 4 5 C<br>TYPE P NAMAN N<br>0 21 P NAMAN N<br>1 23,724 6 GHz  | Peak Search<br>Next Peak<br>Next Pk Right  |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
| Constraints and percent a         | nge : 10GHz                             | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 11.3 ms (20000 pts)<br>Z<br>02:28:18 PM April, 2018<br>TRACE 12 2 4 5 C<br>TYPE P NAMAN N<br>0 21 P NAMAN N<br>1 23,724 6 GHz  | Peak Search<br>Next Peak<br>Next Pk Right<br>Next Pk Left                          |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
| Constraints and percent a         | nge : 10GHz                             | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 1.3 ms (20000 pts)<br>Z<br>[02:8:18 Pt April 2:3 = 0<br>The state of the state | Peak Search<br>Next Peak<br>Next Pk Right<br>Next Pk Left<br>Marker Delta          |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |
| Constraints and percent a         | nge : 10GHz                             | ~26.5GH<br>ALIGN AUTO<br>Avg Type: Log.Pwr | 1.3 ms (20000 pts)<br>Z<br>[02:8:18 Pt April 2:3 = 0<br>The state of the state | Peak Search<br>Next Peak<br>Next Pk Right<br>Next Pk Left<br>Marker Delta<br>MkrCF |  | #VBW 3.0 MHz   | #Sweep 501.3 ms (20000 pts)   | 1 of 2        |



| LTE Band 66 Channel Band width: 5MHz  |  |
|---|--|
| Channel 131997  |  |
| Frequency Range : 9kHz~1GHz   | Frequency Range : 1GHz ~10GHz  |
| Marker 1 944.0767/03835 MHz         Store         Store         Store         Auge Auto         Res End Face         Auge Auto         Auge Auto <td>Peak Search         B &amp; L         IF         50 ©         Senecimit         Allow Anto (0254247 Marth 2018)           Marker 1 4.0665903345167 GHz         PHO: Fast Carting         Trig: Free Run atom: 30 db         Trig: Free Run atom: 30 db         Peak Search</td>  | Peak Search         B & L         IF         50 ©         Senecimit         Allow Anto (0254247 Marth 2018)           Marker 1 4.0665903345167 GHz         PHO: Fast Carting         Trig: Free Run atom: 30 db         Trig: Free Run atom: 30 db         Peak Search |
| Ref Offset 22 95 dB         Attitude 30 dB           10 dB/div         Ref 42.95 dBm         -27.88 dBm   | Next Peak         Ref Offset 22 56 dB         Mkr1 4,066 9 GHz         Next Peak           10.dB/db/         Ref 42.95 dBm         -21.85 dBm         Next Peak  |
| 330   | Next Pk Right Next Pk Right  |
| 320   | Next Pk Left   |
| 299   | Marker Delta   |
|   |  |
| here shall be a special billing in the law are smaller build able as a fit can be write a standard and a source<br>327  | Mkr-RefLvl 371   |
| Start 9 kHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)   | More         More           1 of 2         Start 1.000 GHz         Stop 10.000 GHz         1 of 2           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)   |
| MSG STATUS  | MCS         #MW 3/0 mmz         #Sweep 301.5 mm (20000 pts))           MS3         [status]  |
| Frequency Range : 10GHz~26.5GHz   |  |
| Keysight Spectrum Analyzer - Swept SA   |  |
| RL         RF         S0 R         DC         SENSE:INT         ALIGN AUTO         02:59:00 PM Apr11, 2018           Marker 1 26,264863243162 GHz         Avg Type: Log-Pwr         TR4CE 12.343.0         TR4CE 12.343.0   | Peak Search  |
| RL         IP         Sign pc         Section         Auge auto         Description         Theory Section           Marker 1 26:264863243162         GHz         Free Run         Avg Type: Log-Pwr         Theory Trace Type Run         Theory Type Run<   |  |
| Ref         PP         Sign DC         Stocker         Auge Auro         C239000 Model 11, 2018           Marker 1 26,264363243162 GHz<br>FR0C Fast<br>Battern: 30 d5         Free Run<br>Free Run<br>Attern: 30 d5         Avg Type: Log-Pwr<br>Type: Log-Pwr | Peak Search  |
| The AL PP 99 CC State of the ALBRANCE CASE of the ALBRANCE CONSISTENCE OF THE ALBRANCE CONSISTENCE OF THE ALBRANCE CONSISTENCE OF THE ALBRANCE OF THE ALBRANC   | Peak Search<br>Next Peak   |
| Name         No         O         O         State         Alge Auro         Alg   | Peak Search<br>Next Peak<br>Next Pk Right  |
| National State     State     Avg  | Peak Search<br>Next Peak<br>Next Pk Right  |
| Nation         Product         Sector         Augustion         Control         Sector         Augustion         Control         Contro         Control         Control <t< td=""><td>Peak Search<br/>Next Peak<br/>Next Pk Right<br/>Marker Deta</td></t<>   | Peak Search<br>Next Peak<br>Next Pk Right<br>Marker Deta   |
| Nation         Product         Sector         Augustion         Control         Sector         Augustion         Control         Contro         Control         Control <t< td=""><td>Peak Search<br/>Next Peak<br/>Next Pk Right<br/>Marker Deta</td></t<>   | Peak Search<br>Next Peak<br>Next Pk Right<br>Marker Deta   |



| LTE Band 66 Channel Band width: 5MHz   |  |   |
|--|--|---|
| Channel 132322<br>Frequency Range : 9kHz~1GHz  |  | Frequency Range : 1GHz ~10GHz   |
| Keysight Spectrum Analyzer - Swept SA  |  | 🔤 Keysight Spectrum Analyzer - Swept SA   |
| Marker 1         B92.81240.607         Steleparti<br>Marker 1         Aug Type: Log-Pwr<br>Trace<br>IFGain.dow         Trig: Free Run<br>Atten: 30 dB         Avg Type: Log-Pwr<br>Trace<br>Arg Type: Log-Pwr  | 2018<br>Peak Search  | N. Nº         See DC         See DC         ALIGN AUTO         D23713PM Av11, 2018           Markor 1 3.7/89669484474         CH2         Trig: Free Run         Avg Type: Log-Per         Trice: Free Run           PRO: Fast Cont.com         Trig: Free Run         Cont.com         Cont.c |
| Ref offset 22.95 dBm -27.02 (<br>0 dB/dt/ Ref 42.95 dBm -27.02 (   |  | Ref Offset 22 95 dB Mkr1 3.789 7 GHz<br>10 dB/div<br>Ref 42.95 dBm -21.26 dBm   |
| 330  | Next Pk Right  | 330 Next Pk Right   |
| 130  | Next Pk Left   | 220 Next Pk Left  |
| 295  | Marker Delta   | 295 Marker Delta  |
| .17.1 ku.4   | 00 den<br>Mkr→CF   | 47.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1  |
| <ul> <li>Standards (Social Section 1 and Section 2) and the section of the section of the section of the section 1 and the section 1 a</li></ul> | Mkr→RefLv  |   |
| Start 9 kHz         Stop 1.0000           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (2000)  | More<br>GHz  | Start 1.000 GHz Stop 10.000 GHz 1 of 2  |
|  |  | #Pag BW 1.0 MHz #VBW 3.0 MHz #Sween 501.3 mg (20000 ntc)  |
| MIG  | 05)  | #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |
| Frequency Range : 10GHz~26.5GHz  | 2018   |   |
| Frequency Range : 10GHz~26.5GHz           • Koyati Spectrum Analyse : Swag SA           • Koyati Sp  | 2018   |   |
| Instrume         Instrume           Frequency Range : 10GHz~26.5GHz           Image: Sector Andrew Sector S   | 2018<br>Peak Search  |   |
| Frequency Range : 10GHz~26.5GHz  | 2018<br>Peak Search  | intatua i   |
| Introduction         Introduction           Frequency Range : 10GHz~26.5GHz           Introduction         Introduction           Intentinter         Intentententer   | 2018<br>Peak Search<br>SHz<br>Bm   |   |
| The former sector of the forme       | 2014<br>Peak Search<br>Next Peak<br>Next Pk Right  |   |
| The second secon       | 2019<br>14 C Q<br>14 C Q |   |
| The second secon       | 2019<br>Peak Starch<br>Next Peak<br>Next Pk Right<br>Next Pk Left<br>Marker Detta  |   |
| Constraints     Constrain            | 2019<br>14 C Q<br>14 C Q |   |
| Constraints     Constrain            | 2010<br>Peak Starch<br>Next Peak<br>Next Peak<br>Next Pk Right<br>Next Pk Left<br>Marker Delta<br>MkrCF<br>MkrCF   |   |



| LTE Band 66 Channel Bar<br>Channel 132647                             | nd width: 5MHz  |                |  |                |
|---|---|----------------|--|----------------|
| Frequency Range : 9kHz~   | 1647  |                | Frequency Range : 1GHz ~10GHz  |                |
| Keysight Spectrum Analyzer - Swept SA                                 | ALIGN AUTO 02:54:18 PM Apr 11, 2018                   | 00             | Keysight Spectrum Analyzer - Swept SA  | - 0 ×          |
| Marker 1 879.325966298 MHz<br>PNO: Fest<br>IFGain:Low #Atten: 30 dB   | Avg Type: Log-Pwr TRACE 2345<br>TYPE<br>DET           | Peak Search    | Marker 1 3.814890744537 GHz Fast C Trig: Free Run<br>FGainton de Company State C Trig: Free Run<br>FGainton de C Trig: Free Run<br>Attan: 30 dB C Trig: Resk | Search         |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm<br>Log                 | Mkr1 879.33 MHz<br>-26.86 dBm                         |                | k Mkr1 3.814 9 GHz N<br>10 dBiolv Ref 42.95 dB -22.10 dBm -22.10 dBm   | lext Peak      |
| 33.0  |   | Next Pk Right  | Next   | Pk Right       |
| 13.0  |   | Next Pk Left   | 210 Nex  | xt Pk Left     |
| -7.05   |   | Marker Deita   | -7.05  | rker Delta     |
| 47.1  | CL1.13200 d8  | Mkr→CF         |  | Mkr→CF         |
|   |   | Mkr→RefLvl     |  | r→RefLvi       |
| Start 9 kHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz                           | Stop 1.0000 GHz<br>#Sweep 501.3 ms (20000 pts         | More<br>1 of 2 |  | More<br>1 of 2 |
| Frequency Range : 10GH  | STATUS  |                |  |                |
| Keysight Spectrum Analyzer - Swept SA                                 | ALIGN AUTO 02:55:15 PM Apr 11, 2018                   | 00             |  |                |
| Marker 1 23.660208010401 GHz<br>PNO: Fast<br>IFGain:Low #Atten: 30 dB | Avg Type: Log-Pwr TRACE 12 34 5<br>TYPE<br>DET 201110 | Peak Search    |  |                |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm                        | Mkr1 23.660 2 GHz<br>-17.35 dBm                       | Next Peak      | ĸ  |                |
| 33.0  |   | Next Pk Right  | n  |                |
| 23.0  |   |                |  |                |
| 13.0  |   | Next Pk Left   | n en   |                |
| 296   |   | Marker Delta   |  |                |
|   |   | Mkr→CF         |  |                |
|   |   | Mkr→RefLvl     | Y Contraction of the second  |                |
| Start 10.000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz                      | Stop 26.500 GHz<br>#Sweep 501.3 ms (20000 pts         |                |  |                |
| #VOW 3.0 WIN2 #VOW 3.0 WIN2   | #Sweep_301.3 ms (20000 pts                            | a –            |  |                |



| LTE Band 66 Channel Ban  | d width: 10MHz  |                |   |                |
|--|---|----------------|---|----------------|
| Channel 132022   |   |                |   |                |
| Frequency Range : 9kHz~  | 1GHz  |                | Frequency Range : 1GHz ~10GHz   | - 4 ×          |
| Koysigkt Spectrum Analyzer - Swept SA         SENSE: 101           R         VP         1:00 pc         SENSE: 101           Marker 1         1:668,5099254396         MHz         Trig: Free Run<br>IFGain.Low         Trig: Free Run | ALIGN AUTO 03:37:29 PM Apr11, 2018<br>Avg Type: Log-Pwr TRACE    2:3 4 5<br>TYPE    1:2 3 4 5<br>OET    1:2 3 4 5 | Peak Search    |   | ak Search      |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm   | Mkr1 868.51 MHz<br>-27.28 dBm   | NextPeak       | Ref Offset 22.95 dB Mkr1 3.744 2 GHz  | Next Peak      |
| 33.0   |   | Next Pk Right  | 330 Ne  | xt Pk Right    |
| 23.0   |   | Next Pk Left   | 200   | lext Pk Left   |
| 2.96   |   | Marker Delta   | -7.05   | larker Delta   |
| -17.1  | 0L1-43.00 dBm   | Mkr→CF         |   | Mkr→CF         |
| a sense vid sut (sen et al. et al<br>37.1   |   | Mkr→RefLvl     |   | kr→RefLvi      |
| Start 9 kHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz  | Stop 1.0000 GHz   | More<br>1 of 2 | Start 1.000 GHz         Stop 10.000 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep .501.3 ms (20000 pts) | More<br>1 of 2 |
| MIR  | #Sweep 501.3 ms (20000 pts)   | л<br>          | Access by 1.0 MHz         #VDW 3.0 MHz         #Sweep 3013 HIS (20000 pts)]           Mag         [status]                  |                |
| Frequency Range : 10GHz  | z~26.5GHz   |                |   |                |
| Reysight Spectrum Analyzer - Snept SA         SENSE-INT           RL         RP         SO G         SENSE-INT           Marker 1 26.197209800493 GHz         Trig: Free Run<br>IFGeint.ow         Trig: Free Run                      | ALIGN AUTO 03:38:10 PM Apr 11, 2018<br>Avg Type: Log-Pwr TRACE 12:3 4<br>TYPE MURAN                               | Peak Search    |   |                |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm<br>Log  | Mkr1 26.197 2 GHz<br>-16.38 dBm   | Next Peak      |   |                |
| 33.0   |   | Next Pk Right  |   |                |
| 23.0   |   | Next Pk Left   |   |                |
| 296  |   | Marker Delta   |   |                |
|  |   | Mkr→CF         |   |                |
|  |   | Mkr→RefLvl     |   |                |
| Start 10.000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz   | Stop 26.500 GHz<br>#Sweep 501.3 ms (20000 pts)  | More<br>1 of 2 |   |                |
| MSG  | STATUS  |                |   |                |



| LTE Band 66 Channel Band width: 10MHz  |   |
|--|---|
| Channel 132322   |   |
| Frequency Range : 9kHz~1GHz  | Frequency Range : 1GHz ~10GHz   |
| Marker 1         89/1.451572579         MHz         Aug Type: Log-Pwr         Trid: Free Run         Avg Type: Log-Pwr         Trid: Free Run         Park Search           Free Run         Arten: 30 dB         0 cert Participant         Trid: Free Run         Trid:   | h W RL RF 30 D C SAREIMT ALIGNAUTO 033618PM/p11,208 Park Search Marker 1 3.794189709435 GHz Trig: Free Run Ficial row Asten: 30 dB Park Search Park Search  |
| Ref Offset 22:95 dB Mkr1 891.45 MHz<br>10 dBiddi Ref 42.95 dBm -27.18 dBm  | eak Ref Offset 2295 dB Nkr1 3.794 2 GHz -20.92 dBm -20.92 dBm   |
| SSD Next Pk R  | light 230 Next Pk Right   |
| 130 Next Pk  | Left Next Pk Left   |
| 295 Marker D   | 7.05  |
| 17.1 XL-100.00 MKr   | -CF 17.1 Minute Min<br>Minute Minute Min |
|  | fLvi 071 MkrRefLvi  |
|  | More         More           of2         Start 1.000 GHz         1 of2           start 1.000 GHz         #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  |
| MSG STATUS   | 100 III III III III III III III III III   |
| Frequency Range : 10GHz~26.5GHz  |   |
| Marker 1 26.428221411071 GHz Avg Type: Log-Pwr TRACE 12 3 4 5 6<br>PNO: Fast Trig: Free Run<br>IFGeinLow #Atten: 30 dB DET Statistics  |   |
| Ref Offset 22 95 dB Mkr1 26.428 2 GHz  | eak   |
| 530 Next Pk R  | ight  |
| 220 Next Pk  | Let   |
| 299 Marker 0   | Deta  |
| 12.2 K. C. La part in the second   | -CF   |
| 274<br>374 Martin de 196 - 196 Martin de 196 M |   |
| Start 10.000 GHz Stop 26.500 GHz   | Acre<br>of 2  |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)   |   |



| LTE Band 66 Channel Band width: 10MHz   |  |
|---|--|
| Channel 132622  |  |
| Frequency Range : 9kHz~1GHz   | Frequency Range : 1GHz ~10GHz  |
| Marker 1 810.792039602 MHz<br>PNO: Fast Comparison Trig: Free Run<br>IFGainLow #Atten: 30 dB Der Melan Na   | M         RL         RF         30 S         DC         SENECHT         AUGM AUTO         03:341:09 Avg11,2018         Pack Search           Marker 1 3.778438921946 GHz         Free Run         Avg Type: Log-Pwr         Trig: Free Run   |
| Ref Offset 2295 dB Mkr1 810.79 MHz  | eak Ref Offset 22:95 dB Nkr1 3.778 4 GHz<br>10 dB/div Ref 42:95 dBm -21.67 dBm   |
| 530 Next Pk R   | Ight 23.0 Next Pk Right  |
| Vice And  | Left 10 Next Pk Left   |
| 295 Marker (  | eta 236 Marker Delta   |
|   |  |
| Mkr→Re  | TLV 371 Mkr-RefLvi   |
|   | Of 2         Stop 10.000 GHz         More           fr2         Start 1.000 GHz         \$Stop 10.000 GHz         1 of 2           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  |
| MSG STATUS  | Ind Internet |
| Frequency Range : 10GHz~26.5GHz   |  |
| Marker 1 26.166683334165 GHz         Trig: Free Run         Avg Type: Log-Pwr         Trough Park Search           Micker 2 26.16668334165 GHz         Trig: Free Run         Avg Type: Log-Pwr         Trough Park Search  |  |
| Ref Offiset 22:25 dB Mkr1 26.166 7 GHz  | eak de la companya de  |
| S3.0 Next Pk R  | ght  |
| 210 Next Pk   | Left   |
| 296 Marker D  | eta  |
|   | -CF  |
| 1771 and the second se | LM   |
| Start 10.000 GHz Stop 26.500 GHz  | fore<br>of 2   |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  |  |



| LTE Band 66 Channel Bar   | nd width: 15MHz   |                |  |                |
|---|---|----------------|--|----------------|
| Channel 132047  |   |                |  |                |
| Frequency Range : 9kHz~   | -1GHz   |                | Frequency Range : 1GHz ~10GHz  |                |
| Keysight Spectrum Analyzer - Swept SA         SENSE.INTI           RL         PP         50 0.00         SENSE.INTI           Markor 1.943.397669883 MHz         PNO: Fast         Trig: Free Run<br>IFGaints: 30 dB         Trig: Free Run | ALIGN AUTO 03:58:22 PM Apr 11, 2018<br>Avg Type: Log-Pwr TRACE 23:36<br>TYPE<br>DET 2014  | Peak Search    |  | ak Search      |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm<br>Log   | Mkr1 943.40 MHz<br>-27.60 dBm   | Next Peak      | Ref Offset 22.95 dB Mkr1 3.806 8 GHz -21.02 dBm -21.02 dBm               | Next Peak      |
| 33.0  |   | Next Pk Right  | 330 Ne   | xt Pk Right    |
| 13.0  |   | Next Pk Left   | 220  | lext Pk Left   |
| 2.96  |   | Marker Delta   | 7.05   | arker Delta    |
| 47.1  | DL1-4300 dBe  | Mkr→CF         |  | Mkr→CF         |
| - 27-1<br>-27-1   | n an air de na ion y fear tha tha faith sinn an tha faith ann an tha faith ann an tha faith an ann an tha ann a<br>An tha ann an tha ann an tha ann an tha ann an tha an tha ann an th<br>An tha ann an tha ann a | Mkr→RefLvl     |  | kr→RefLvi      |
| Start 9 kHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz   | Stop 1.0000 GHz   | More<br>1 of 2 |  | More<br>1 of 2 |
| MBG   | #Sweep 501.3 ms (20000 pts)   |                | Area         #Sweep Surtamis (20000 pts))           Ima         [status] |                |
| Frequency Range : 10GH  | z~26.5GHz   |                |  |                |
| Marker 1 25.649382469124 GHz<br>PN0:Fast C<br>IFGeinLow<br>IFGeinLow  | ALIGN AUTO 03:39:02 PM Apr11, 2018<br>Avg Type: Log-Pwr TRACE 0 2:3 3<br>TYPE N   | Peak Search    |  |                |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm  | Mkr1 25.649 4 GHz<br>-16.65 dBm   | Next Peak      |  |                |
| 33.0  |   | Next Pk Right  |  |                |
| 23.0  |   | Next Pk Left   |  |                |
| 2.96  |   | Marker Delta   |  |                |
|   |   | Mkr→CF         |  |                |
|   |   | Mkr⊸RefLvl     |  |                |
| Start 10.000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz  | Stop 26.500 GHz<br>#Sweep 501.3 ms (20000 pts)  | More<br>1 of 2 |  |                |
| MSQ   | STATUS  |                |  |                |



| LTE Band 66 Channel Band width:   | 15MHz   |  |
|---|---|--|
| Channel 132322  |   |  |
| Frequency Range : 9kHz~1GHz   |   | Frequency Range : 1GHz ~10GHz  |
| Bit         RL         RF         150.0         OC         SERSE/ITT         ALIGN AU           Marker 1 918.903945197 MHz         Frig: Free Run         Avg Type: Log-P         Avg Type: Log-P         Avg Type: Log-P           FR0: Free Run         Frig: Free Run         Frig: Free Run         Avg Type: Log-P         Avg Type: Log-P | JTO 03:56:32 PM Apr 11, 2018                    | Marker 1 3.777983899445 GHz Selection August   |
| Ref Offset 22.95 dB<br>10 dB/div Ref 42.95 dBm  | Mkr1 918.90 MHz<br>-27.24 dBm                   | Ref Offset 2295 dB         Mkr1 3.778 0 GHz         Next Peak           10 gBldiv         Ref 42.95 dBm         -21.49 dBm   |
| 33.0  | Next Pk Right                                   | Next Pk Right  |
| 130   | Next Pk Left                                    | Next Pk Left   |
| 7.05  | Marker Delta                                    | 2.96 Marker Delta  |
| -17.1   | CLI 13 00 dEn<br>↓1<br>Mkr→CF                   | 17.7 1 2.1.120 cm<br>17.7 1 Market and the star of the s |
| 32.7.1  | Mkr→RefLvi                                      | State Stat   |
| Start 9 kHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep  | More<br>Stop 1.0000 GHz<br>501.3 ms (20000 pts) | Offer         More           Start 1.000 GHz         Stop 10.000 GHz         1 of 2           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)   |
| MSG STA   | ATUS  |  |
| Frequency Range : 10GHz~26.5G   | Hz  |  |
| RL RF 150.0 0C SERVELINT ALIGN AU     Marker 1 26,472773638682 GHz     FRO: Fast Cp     Trig: Free Run     FRO: Fast Cp     Trig: Free Run     FRO: So dB   |   |  |
|   | Akr1 26.472 8 GHz<br>-16.19 dBm                 |  |
| 33.0  | Next Pk Right                                   |  |
| 230   | Next Pk Left                                    |  |
| 296   |   |  |
| -7.05   | Marker Delta                                    |  |
|   | Mkr-CF  |  |
|   | Mkr→RefLvi                                      |  |
| Start 10.000 GHz  | More<br>Stop 26.500 GHz                         |  |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep   | 501.3 ms (20000 pts)                            |  |



| LTE Band 66 Channel Band width: 15MHz  |  |                |
|--|--|----------------|
| Channel 132597   |  |                |
| Frequency Range : 9kHz~1GHz  | Frequency Range : 1GHz ~10GHz  |                |
| Registive Spectrum Analyzer - Species State         Species State         Autor Autor 10 (353:34 PM April), 2018           Marrikor 1 696:374318741 MHz,<br>PNO; Fast C,<br>Fischickow         Trig: Free Run<br>#Atten: 30 dB         Autor Autor 0, 253:34 PM April, 2018  | Peak Search         Markor 1 4.92/554/92 77314 GHz         Stote Charlow         Augment of Charlow         Augment of Charlow         Peak Sea           Markor 1 4.92/554/277314 GHz         PR0: France         Trig: Free Run<br>Avg Type: Log-Pwort Table         Prove Table <td< td=""><td>Peak</td></td<>  | Peak           |
| Ref Offset 22.95 dB         Mkr1 696.37 MHz           10 dBJdiv         Ref 42.95 dBm         -27.49 dBm   | Next Peak Ref Offset 22.95 dB Mkr1 4.925 5 GHz Next  | reak           |
| 220  | Next Pk Right 330 Next Pk  | Right          |
| 130  | Next Pk Left   | k Left         |
| 2 29   | Aarker Delta   | Delta          |
|  | MkrCF 271 Mit and a straight and a straight of the straighto | r→CF           |
|  | MkrRefLy 271 MkrR   | _              |
| Start 9 kHz Stop 1.0000 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)  | More         Start 1.000 GHz         Stop 10.000 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  | More<br>1 of 2 |
| Frequency Range : 10GHz~26.5GHz  |  |                |
| Koylight Spectrum Analyzer - Swept SA         Specific Spectrum         Aujon Autro         02.553.94 PM April 1.2018           M RL         PF         50.0         CC         Specific Spectrum         Aug Type: Log-Pwr         TRACE IP 2.86.95           Markfort 1 261.039/62/59/81349 CHz         PHO Fant         Trig: Free Run         Trig: Specific Spectrum         Trig: Specific Sp | Peak Search  |                |
| Ref Offset 22.95 dB Mkr1 26.039 6 GHz<br>10 dB/div Ref 42.95 dBm -17.17 dBm -17.17 dBm   | NextPeak   |                |
| 330  | Next Pk Right  |                |
|  | Next Pk Left   |                |
| 295<br>705   | Marker Delta   |                |
| 17.7 Construction of the second  | MkrCF  |                |
| 21<br>-01  | Mkr→RefLvi   |                |
| Start 10.000 GHz Stop 26.500 GHz<br>#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000 pts)   | More<br>1 of 2   |                |



| LTE Band 66 Channel Band width: 20MHz  |  |
|--|--|
| Channel 132072   |  |
| Frequency Range : 9kHz~1GHz Frequency Range : 1GHz ~10GHz  |  |
| Marker 1 459,585979299 MHz Avg Type: Log-Pwr THREE TO State The State To State The State To State The State To State The State To State To State The State To State T | 20:38 PM Apr11, 2018<br>TRACE 1 2 3 4 5 0<br>TYPE PINNINN<br>DET PINNINN |
| Ref Offset 22.95 dB Mkr1 459.59 MHz<br>10 dB/div Ref 42.95 dBm -27.66 dBm 10 dB/div Ref 42.95 dB Mkr1 4  | 4.922 8 GHz<br>-21.65 dBm  |
| 330 Next Pk Right 330  | Next Pk Right  |
| 220 -  | Next Pk Lef  |
| 295 256 256 256 266 276276 _   | Marker Delta   |
| 3/7.1     3/7.1     3/7.1     3/7.1     3/7.1       3/7.1     3/7.1     3/7.1     3/7.1     3/7.1       3/7.1     3/7.1     3/7.1     3/7.1     3/7.1  | Mkr→CF   |
| 31   | Mkr⊸RefLv  |
| More         1072           Start 9 kHz         Stop 1.0000 GHz         1072           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (2000 pts)         #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (2000 pts)   | 0 000 GHz 1 of 2<br>ns (20000 pts)                                       |
| Frequency Range : 10GHz~26.5GHz  |  |
| Resk Search  |  |
| Ref Offset 22.35 dB     Mkr1 26,144 4 GHz       0 dB/div     Ref 20,50 dBm   |  |
| Next Pk Right  |  |
| 330 Next Pk Left   |  |
| 20 Marker Delta  |  |
| 17.2 Keine auf der Aussen auf der Au |  |
| SZ.2 MkrRefLvi   |  |
| Start 10.000 GHz         Stop 26.500 GHz         More 1 of 2           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  |  |



| LTE Band 66 Channel Band width: 20MHz  |                            |  |
|--|----------------------------|--|
| Channel 132322   | <u>اح</u>                  |  |
| Frequency Range : 9kHz~1GHz  |                            | Frequency Range : 1GHz ~10GHz  |
| Marker 1         794.931746587         MHz         Aug Field         Avg Type: Log-Pwr         TRACE         <   | (X)                        | RL         RF         SOR         DC         SENSE:DIT         ALIGN AUTO         04:19:01 PM Apr11, 2018         Peak Search           Marker 1 4.050252512626 GHz         Avg Type: Log-Pwr         TR4CE         12:3:4:5:7         Peak Search   |
| Ref Offset 22.95 dB         Mkr1 794.93 MHz         Mkr1 794.93 MHz           10 dB/dtly         Ref 42.95 dB         -27.18 dBm         -27.18 dBm  | Next Peak                  | IFGenLow #Atten: 30 dB certainten<br>10 dBldark Ref 42.95 dB c61z NextPeak<br>20 dBldark Ref 42.95 dBm21.33 dBm  |
| 330  | Next Pk Right              | 330 Next Pk Right  |
| 220  | Next Pk Left               | 220 Next Pk Left   |
| 2.95   | 23<br>Marker Delta<br>-7.0 | 295 Marker Delta   |
| 17.2   | Mkr→CF                     | 12.1 Kur 13.0 es<br>22.1 Kur 14. |
| 37.1   | Mkr→RefLvl -37             | 37.1 MkrRefLv  |
| Start 9 kHz         Stop 1.0000 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)   | More<br>1 of 2<br>tt       | Start 1.000 GHz         Stop 10.000 GHz         1 of 2           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  |
| MEG  | MSC                        | ACS BW 1.0 WHZ #VBW 3.0 WHZ #SWEEP 30 1.3 WS (2000 pts)]   |
| Frequency Range : 10GHz~26.5GHz  | - 4 -                      |  |
| Marker 1 26,159257962898 CH2_         Fine Run         Auge Autro         Out 322 PM April 2 are 1 and 1 a | Peak Search                |  |
| Ref Offset 22.95 dBm         Mkr1 26.159 3 GHz           10 dBldiv         Ref 42.95 dBm           -15.53 dBm  | Next Peak                  |  |
| 33.0   | Next Pk Right              |  |
| 220  | Next Pk Left               |  |
| 299  | Marker Delta               |  |
|  | Mkr→CF                     |  |
|  | Mkr→RefLvi                 |  |
|  | More<br>1 of 2             |  |
| Start 10.000 GHz         Stop 26.500 GHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (20000 pts)  | 1012                       |  |



| LTE Band 66 Channel Band width: 20MHz   |                     |  |
|---|---------------------|--|
| Channel 132572  |                     |  |
| Frequency Range : 9kHz~1GHz   |                     | Frequency Range : 1GHz ~10GHz  |
|   | . 2018              | Date         See         See Entl         Allow ATO         Del 2/2 3F Mort 1, 2018         Pack Search           Marker 1 3.7635/588179409 GHz         Trig: Free Run         Yrig: Free Run         Trig: Free Run <td< td=""></td<>  |
| Ref Offset 22.95 dB Mkr1 819.67 I<br>10 dB/diy Ref 42.95 dBm -27.56 d<br>-27.56 d   | NHZ Next Peak       | Ref Offset 22.95 dB Mkr1 3.763 6 GHz<br>10 dB/div Ref 42.95 dBm -22.10 dBm   |
|   | Next Pk Right       | 330 Next Pk Right  |
|   | Next Pk Left        | 220 Next Pk Left   |
| 2.96  | Marker Delta        | 7.05   |
| 17.1 27.1 27.1 27.1 27.1 27.1 27.1 27.1   | Mkr→CF              | 47.1 A CONTRACT OF |
| Procession of the Area Strategies and the Area and the Area of the  | Mkr→RefLv           | 1 37.1 Mkr-RefLvl  |
| Start 9 kHz         Stop 1.0000           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 501.3 ms (2000)   | More<br>GHz 1 of 2  |  |
| MSG STATUS  |                     |  |
| Frequency Range : 10GHz~26.5GHz   | - 0 -               |  |
| 0 RL RF 150.0 CC SENSENT ALIGN AUTO 04:374 PM-49-11<br>Marker 1 25.554502725136 CH2 Trise: Free Run<br>PHOL Fast CD<br>Free Run Avg Type: Log-Pwr Tree 12<br>PHOL Fast CD<br>Free Run Avg Type: Log-Pwr Typ | 2018<br>Peak Search |  |
| Ref Offset 22.95 dB Mkr1 25.554 5 0<br>10 dB/div Ref 42.95 dBm -17.04 d   |                     |  |
| 33.0  | Next Pk Right       |  |
| 220   | Next Pk Left        |  |
| 295   | Marker Delta        |  |
| 7.05  | 1 dbn               |  |
| 127 1 43 Million of Alexandra Million and Alexandr  | Mkr→CF              |  |
|   | Mkr→RefLv           |  |
| Start 10.000 GHz Stop 26.500  | More<br>GHz 1 of 2  |  |
| #Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 501.3 ms (20000   | pts)                |  |



### 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

According to FCC 27.53(a)(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than:  $43 + 10 \log (P) dB$  on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, 55 + 10 log (P) dB below 2288 MHz; (iii) By a factor of not less than 70 + 10 log (P) dB on all frequencies between 2388 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB below 2288 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

According to FCC 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

According to FCC 27.53(f) For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

According to FCC 27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) AWS emission limits— General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

According to FCC 27.53(v)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.



### 4.8.2 Test Procedure

- e. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- f. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- g. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step b. Record the power level of S.G
- h. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution antenna.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.8.3 Deviation from Test Standard

No deviation.



# 4.8.4 Test Setup <Frequency Range below 1GHz> Ant. Tower 1-4m Variable 3m EUT& **Support Units** Turn Table 80cm Ο Ο ╧ Ground Plane **Test Receiver** 0 0 0 0 ٩, 0 0 0 <Frequency Range above 1GHz> Ant. Tower 1-4m Variable EUT& 3m **Support Units Turn Table** Absorber 1.5 m Ο Ο **Ground Plane Test Receiver** 0 0 0 0 0 0 0 0 For the actual test configuration, please refer to the attached file (Test Setup Photo).



## 4.8.5 Test Results

Below 1GHz

## WCDMA:

| Mode  | TX channel 1312 |                  |                          | Frequ                     | Frequency Range Below 100 |             |             |  |
|---|-----------------|------------------|--------------------------|---------------------------|---------------------------|-------------|-------------|--|
| Antenna Polarity & Test Distance: Horizontal at 3 M |                 |                  |                          |                           |                           |             |             |  |
| No.   | Freq. (MHz)     | Reading<br>(dBm) | S.G Power<br>Value (dBm) | Correction<br>Factor (dB) | Emission<br>Value (dBm)   | Limit (dBm) | Margin (dB) |  |
| 1   | 92.88           | 33.75            | -58.16                   | -1.04                     | -59.21                    | -13         | -46.21      |  |
| 2   | 237.9           | 35.53            | -59.83                   | 3.84                      | -55.99                    | -13         | -42.99      |  |
| 3   | 289.15          | 32.54            | -62.93                   | 3.78                      | -59.14                    | -13         | -46.14      |  |
| 4   | 344.76          | 31.96            | -65.73                   | 3.61                      | -62.12                    | -13         | -49.12      |  |
| 5   | 472.1           | 35.04            | -62.14                   | 2.84                      | -59.30                    | -13         | -46.30      |  |
| 6   | 735.93          | 28.98            | -67.39                   | 1.02                      | -66.36                    | -13         | -53.36      |  |
|   |                 | Antenna          | a Polarity & Te          | est Distance:             | Vertical at 3 M           | 1           |             |  |
| No.   | Freq. (MHz)     | Reading<br>(dBm) | S.G Power<br>Value (dBm) | Correction<br>Factor (dB) | Emission<br>Value (dBm)   | Limit (dBm) | Margin (dB) |  |
| 1   | 68.37           | 29.98            | -57.65                   | -4.91                     | -62.56                    | -13         | -49.56      |  |
| 2   | 94.25           | 30.82            | -60.98                   | -1.00                     | -61.99                    | -13         | -48.99      |  |
| 3   | 129.78          | 25.80            | -65.55                   | -1.23                     | -66.79                    | -13         | -53.79      |  |
| 4   | 238.03          | 30.02            | -65.34                   | 3.82                      | -61.52                    | -13         | -48.52      |  |
| 5   | 509.74          | 31.04            | -64.35                   | 2.81                      | -61.54                    | -13         | -48.54      |  |
| 6   | 609.71          | 33.47            | -61.22                   | 1.78                      | -59.44                    | -13         | -46.44      |  |

## Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).

2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).